

## CLAIMS

What is claimed is:

1. A method to send a message from a first mobile communication device in a first wireless network to a second mobile communication device in a second wireless network, the method comprising:

receiving the message in a first format compatible with the first wireless network;  
and

translating the message from the first format directly into a second format compatible with the second wireless network.

2. The method of claim 1, wherein the first wireless network is a Time Division Multiple Access (TDMA) network and the second wireless network is a Code Division Multiple Access (CDMA) network.

3. The method of claim 1, wherein the first wireless network is a Global System for Mobile Communications (GSM) network and the second wireless network is a Code Division Multiple Access (CDMA) network.

4. The method of claim 1, wherein translating the message comprises:  
extracting a plurality of parameters from the message; and  
constructing a second message in the second format using the plurality of parameters.

5. The method of claim 4, wherein the plurality of parameters include destination information, source information, and delivery priority.
6. The method of claim 1, further comprising:
  - determining whether a destination number of the message is valid in the second wireless network; and
  - forwarding the translated message to the second mobile communication device in the second wireless network if the destination number is valid.
7. A method to send a message from a first mobile communication device operating on a Global System for Mobile Communications (GSM) network to a second mobile communication device, the method comprising:
  - determining whether the second mobile communication device operates on a Code Division Multiple Access (CDMA) network; and
  - translating the message from a GSM compatible format directly into a CDMA compatible format.
8. The method of claim 7, further comprising:
  - forwarding the message in the CDMA compatible format to the second mobile communication device.

9. A method to send a message from a first mobile communication device to a second mobile communication device, the method comprising:
- checking whether a destination number in a first part of the message is valid in a Code Division Multiple Access (CDMA) network on which the second mobile communication device operates on; and
  - sending an acknowledgement to cause a second part of the message, forward short message (FSM), to be forwarded to an interconnection from a Global System for Mobile Communications (GSM) network on which the first mobile communication device operates on, if the destination number is valid in the Code Division Multiple Access (CDMA) network.
10. The method of claim 9, further comprising:
- receiving the FSM from the GSM network;
  - translating the FSM into a CDMA compatible format; and
  - forwarding the translated FSM to the second mobile communication device via the CDMA network.
11. The method of claim 10, wherein translating the FSM comprises:
- extracting a plurality of parameters; and
  - constructing a second message in the CDMA compatible format using the plurality of parameters.
12. A mobile wireless network interconnection comprising:

a home location register (HLR) to store information of a plurality of mobile communication devices in a Code Division Multiple Access (CDMA) network; and

a mobile switching center (MSC) to translate a message from a Global System for Mobile Communications (GSM) compatible format to a CDMA compatible format and to forward the message to the CDMA network using the information in the HLR if the message is for a mobile communication device in the CDMA network.

13. The mobile wireless network interconnection of claim 12, wherein the message is a short message system (SMS) message.

14. The mobile wireless network interconnection of claim 12, further comprising a SMS message server center (SMSC) to route the message to a non-CDMA network in response to checking a destination number of the message against the information in the HLR.

15. The mobile wireless network interconnection of claim 14, wherein the non-CDMA network is an Internet.

16. A wireless communication system comprising:

a first wireless network; and

an interconnection coupling the first wireless network to a second wireless network, the interconnection being operable to reformat a message from a first mobile

communication device operating on the first wireless network directly into a format compatible with the second wireless network.

17. The wireless communication system of claim 16, wherein the interconnection is operable to extract from the message a plurality of parameters including destination information, source information, and delivery priority.

18. The wireless communication system of claim 16, wherein the message is a short message system (SMS) message.

19. The wireless communication system of claim 16, wherein the interconnection is operable to determine whether a destination number of the message is valid in the second wireless network.

20. The wireless communication system of claim 16, wherein the first wireless network is a Global System for Mobile Communications (GSM) network and the second wireless network is a Code Division Multiple Access (CDMA) network.

21. The wireless communication system of claim 16, wherein the interconnection is used as a firewall between the first and second wireless networks.

22. A processing system comprising:  
a processor; and

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a storage medium that stores instructions which, if executed by the processor, will cause the processor to perform a plurality of operations to send a message from a first mobile communication device in a first wireless network to a second mobile communication device in a second wireless network, the plurality of operations comprising:

receiving the message in a first format compatible with the first wireless network; and

translating the message from the first format directly into a second format compatible with the second wireless network, wherein the first and the second wireless networks are of different types.

23. The processing system of claim 22, wherein the first wireless network is a Global System for Mobile Communications (GSM) network and the second wireless network is a Code Division Multiple Access (CDMA) network.

24. The processing system of claim 22, wherein translating the message comprises:  
extracting a plurality of parameters from the message; and  
constructing a second message in the second format using the plurality of parameters.

25. The processing system of claim 24, wherein the plurality of operations further comprise:

determining whether a destination number of the message is valid in the second wireless network; and

forwarding the second message to the second mobile communication device in the second wireless network if the destination number is valid in the second wireless network.

26. A wireless communication system comprising:

a first wireless network; and

an interconnection coupling the first wireless network to a second wireless network, the interconnection including a Home Location Register (HLR) function operable to cause a plurality of messages transmitted between the first and second wireless networks to be routed through a Mobile Service Center (MSC) function of the interconnection.

27. The wireless communication system of claim 26, wherein the interconnection is used as a firewall between the first and second wireless networks.

28. A wireless communication system comprising:

means for receiving a message in a first format compatible with a first wireless network;

means for translating the message from the first format directly into a second format compatible with a second wireless network, wherein the first and second wireless networks are of different types; and

means for forwarding the translated message to the second wireless network if a destination number of the message is valid in the second wireless network.